



General Brochure

11/2008

Partitions

Linings

Ceilings

Shaftwalls

Cement Boards

Access Panels



Knauf Group

Knauf was founded as a family-owned company by the brothers Karl and Dr. Alfons Knauf in 1932 in Germany. Today, their sons, Nikolaus and Baldwin Knauf, continue their successful footsteps as the managing partners of a global corporate group.

Knauf operates from its headquarters in Iphofen, Bavaria, Germany, and is a leading manufacturer of drywall building materials such as gypsum wallboards, interior plasters, ceiling systems, floor systems and state-of-the-art insulation materials. Knauf also manufactures conventional building materials such as external renders and cement-based screeds.

With over 150 plants spread across 37 countries in Europe, USA and Latin America, and a work force of 22,000, the Knauf group has revenues of around 5 billion Euros.

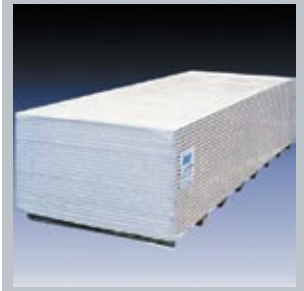
Knauf LLC is the regional subsidiary for the Knauf Group in the Middle East, providing technical and commercial support, specification, design and training services.





Knauf Gypsum Boards:

Vast range of gypsum boards in various sizes and thicknesses to meet all kinds of drywall application requirements. Knauf RG (Regular) board for standard applications, Knauf MR (Moisture Resistant) board for humid areas, Knauf FR (Fire Resistant) board for fire protection, Knauf FM (Fire and Moisture Resistant) board for fire protection in humid areas, Knauf Piano Soundshield board for improved sound protection and Knauf Diamant board for impact resistance requirements.



Knauf Cleaneo Acoustic Boards:

Special perforated acoustic boards with the revolutionary 'air cleaning' effect to form seamless and jointless ceilings. Vast option of perforation designs and board sizes up to 1200 x 2400 mm.



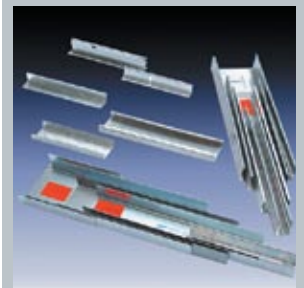
AQUAPANEL® Cement Boards:

AQUAPANEL® Cement Board Indoor for tile backing in wet and humid area and AQUAPANEL® Cement Board Outdoor for exterior façade and ceiling applications. A complete set of accessories is available along with the boards to form certified systems.



Knauf Metal Sections:

Galvanized steel profiles used to form the substructure of Knauf partitions, wall linings and ceilings.



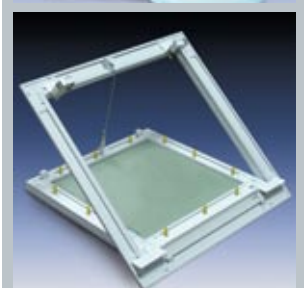
Knauf Joint Compounds:

Various joint compound options are available for joint treatment and smooth surface finishing. Knauf Fugenfuller powder form setting type joint compound for manual joint filling applications. Readymixed Knauf F2F or Readyfix for joint filling and surface finishing by manual or machine based applications.



Knauf Access Panels:

Various types of access panels with sizes from 200x200mm upto 1200x1200mm. Many choices from moisture resistant, fire resistant and perforated acoustic alternatives for flexible designs.



Knauf Drywall Tools:

Full set of sophisticated drywall tools which increase the efficiency and quality of drywall applications.



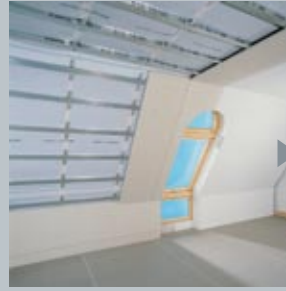
Partitions:

Non load-bearing partitions formed by fixing Knauf gypsum boards to a steel frame made up of Knauf lightweight studs and channels. Knauf partition walls are fire resistant, value added systems that also possess high sound and thermal insulation values.



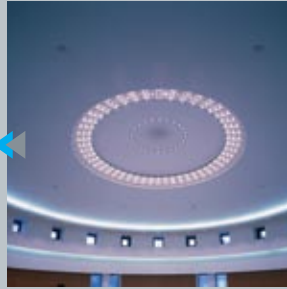
Wall Linings:

Linings formed by fixing Knauf gypsum boards to Knauf metal furring. Walls made of bricks, standard or reinforced concrete, masonry units and other similar materials can be lined with Knauf Wall Lining Systems. Insulation materials can be inserted between the gypsum boards where required. A smooth wall surface is achieved without the further application of stucco gypsum.



Ceilings:

Lightweight, versatile ceilings formed by Knauf gypsum boards and metal grid which can also provide fire, sound and thermal insulation. High end jointless acoustic ceilings with Knauf's patented air cleaning effect formed by Knauf Cleaneo Acoustic boards.



Shaft Walls:

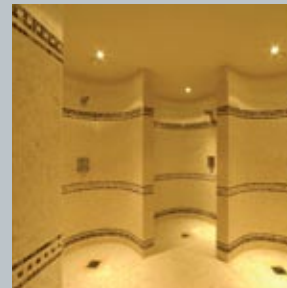
Shaft wall systems consist of Knauf Fire Resistant gypsum boards or Knauf Fire and Moisture Resistant gypsum boards that are attached to a steel frame made up of Knauf lightweight studs and channels. These shaft systems are very suitable for service installation shaft walls that may be exposed to fire risks or elevator shaft walls that should be protected during an outbreak of fire.



AQUAPANEL® Cement Board

Interior and Exterior Systems:

Aquapanel Cement Board technology sets new standards for the design and construction of buildings across Europe and Middle East. Aquapanel Cement Board Indoor is a 100% water-resistant cement board which offers a solid and durable tile substrate in damp and wet rooms such as home bathrooms, public showers, kitchens, swimming pools and commercial areas. AQUAPANEL® Cement Board Outdoor can be used in constructing complete exterior walls, exterior ceilings, façade renovations and other types of external and special projects. Both the interior and exterior applications are proven complete systems from a single reliable source.



Heradesign®

Heradesign:

Heradesign is the market leader for acoustically efficient, decorative ceiling systems made of magnesite bonded wood wool panels, which revolutionized the building industry. Heradesign decorative panels for partitions and ceilings combine a wide range of design possibilities, surface structures, formats and colors with already known properties relating to sound absorption, fire protection, safety against ball throwing, climate regulation and building biology.

Applications:

- High rise commercial and residential buildings
- Hospitals, clinics and laboratories
- Schools, restaurants and recreational facilities
- Exhibition halls, theaters and auditoriums
- Factories and warehouses

Standards:

All Knauf system components comply fully with international standards such as DIN, EN, BS, NF and ASTM.

Advantages:

- Lightweight construction
- Economical
- Easy and speedy installation
- Ready to be painted immediately after installation
- Easy access to electrical and piping installations
- Easy maintenance; change or repair damaged parts easily
- High thermal, sound and fire protection properties
- Easy transportation



Gypsum slurry is made up of stucco, water and other additives, in a continuous mixer. The slurry spreads, in a uniform stream, from multiple outlet hoses onto a moving sheet of paper.



As the board is actually produced upside down, this paper will form the front face of the gypsum board. Discs 'score' this paper allowing it to be easily folded at the edges. The 'back face' paper, fed from above the production line, is applied to the slurry via a forming head set to the desired board thickness. At this point, the front paper is folded at the edges, producing an enclosed envelope of gypsum slurry. Once formed, the board travels the length of the production line on a series of setting belts, and sections of rollers to the shear. During this journey, the gypsum core has time to set, or harden.



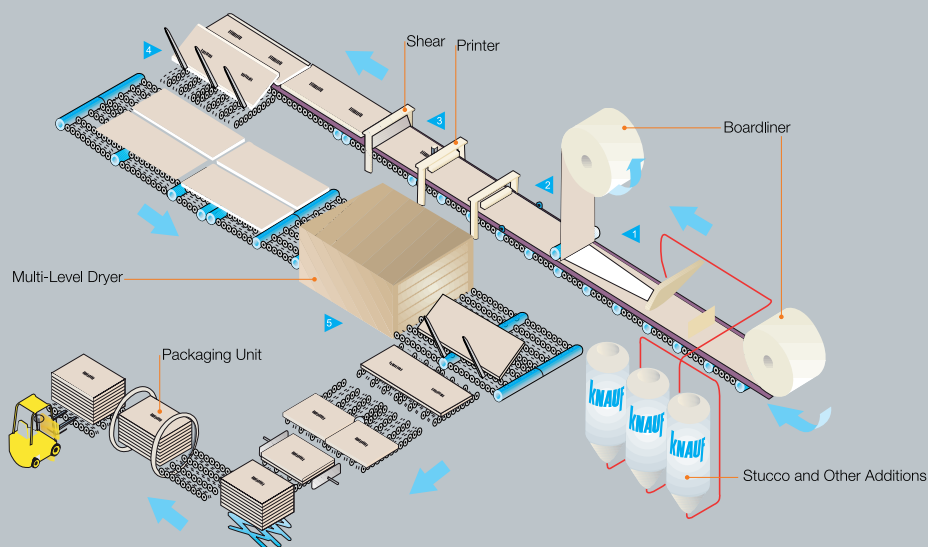
All the required product information, including product name and type, relevant standards, date and time of manufacture, is printed on the back of the boards via an ink jet printer.



At the shear, the long train of boards is cut into panels of specific length. These smaller boards are then turned over and passed into a multi-layer dryer.



During the drying period, the excess water, which was required to form the initial slurry, is gently evaporated off. After boards have dried, they are trimmed and stacked to form pallets. These pallets are then placed in the warehouse after which they will be loaded on to trucks for distribution.



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